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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/934,699	08/22/2001	Satoru Okamoto	SEL 273	9139	
	7590 01/16/2007 MCFARRON, MANZO	EXAM	EXAMINER		
CUMMINGS & MEHLER, LTD. Suite 2850 200 West Adams St. Chicago, IL 60606			DUONG, THOI V		
			ART UNIT	PAPER NUMBER	
			2871		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	01/16/2007	PAF	PAPER	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
Office Action Summary		09/934,699	OKAMOTO ET AL.	
		Examiner	Art Unit	
		Thoi V. Duong	2871	
	The MAILING DATE of this communication	appears on the cover sheet w	ith the correspondence address	
Period fo	• •	DIVIO OFT TO EVOIDE and	MANTHEN OF THEFTY (OA) PANC	_
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REI CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory perior te to reply within the set or extended period for reply will, by sta- treply received by the Office later than three months after the may aded patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI t 1.136(a). In no event, however, may a liod will apply and will expire SIX (6) MON tute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 25	5 September 2006.		
· <u> </u>		his action is non-final.		
3)	Since this application is in condition for allow	wance except for formal mat	ers, prosecution as to the merits is	<b>S</b>
	closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	). 11, 453 O.G. 213.	
Dispositi	on of Claims			
4)[🖂	Claim(s) <u>1-11,16-19,21-27 and 34-51</u> is/are	pending in the application.		
	4a) Of the above claim(s) is/are without			
5)[	Claim(s) is/are allowed.			
6)⊠	Claim(s) 1-11,16-19,21-27 and 34-51 is/are	rejected.		
7)	Claim(s) is/are objected to.			•
8)[	Claim(s) are subject to restriction and	d/or election requirement.		
Applicati	on Papers			
9)	The specification is objected to by the Exam	iner.		
	The drawing(s) filed on is/are: a) a	• •	by the Examiner.	
	Applicant may not request that any objection to t	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the corr	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d	<b>d</b> ).
11)	The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	
Priority L	ınder 35 U.S.C. § 119		• •	
12)🛛	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (f).	
_	☑ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority docume	ents have been received.		
	2. Certified copies of the priority docume	ents have been received in A	pplication No	
	3. Copies of the certified copies of the p	riority documents have been	received in this National Stage	
	application from the International Bure	eau (PCT Rule 17.2(a)).		
* S	See the attached detailed Office action for a l	list of the certified copies not	received.	
		• .		
Attachmen		_		
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
	nation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of I	nformal Patent Application	
	r No(s)/Mail Date	6) 🗌 Other:	·	

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#### **DETAILED ACTION**

### Response to Arguments

- 1. Applicant's arguments in the Pre-Appeal Brief filed September 25, 2006, with respect to the rejection(s) of claim(s) 1 and 2 under 35 USC 103(a) have been fully considered and are persuasive. Therefore, the final rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Minami et al. (US 6,967,632).
- 2. Claims 12-15, 20 and 28-33 were cancelled, and claims 1-11, 16-19, 21-27 and 34-51 are currently are pending in this application.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 24 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Minami et al. (Minami, US 6,967,632 B1).

Re claim 24, as shown in Figs. 1-7, Minami discloses an electronic device comprising:

a liquid crystal display panel 2 (col. 3, lines 49-59 and col. 12, lines 26-34); and an active matrix EL display panel 4 (col. 3, lines 49-59 and col. 12, lines 26-34), wherein the liquid crystal display panel 2 and the active matrix EL display panel are attached to each other so as to allow opening and closing (col. 4, lines 47-55).

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It is obvious that a portable electronic device such as mobile telephone handset using liquid crystal display for lower power consumption is well known in the art.

Re claim 26, Minami discloses that the active matrix EL display panel 4 displays an image (col. 3, lines 49-59 and col. 12, lines 31-34).

5. Claims 1, 2, 4-11, 21, 22, 25, 27, 34 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Minami et al. (Minami, US 6,967,632) in view of Priestman et al. (Priestman, USPN 6,812,954 B1).

Re claims 1 and 2, as shown in Figs. 1-7, Minami discloses an electronic device comprising:

a cover member comprising a first display panel 4 for displaying an image; and a second display panel 2,

wherein the cover member comprising the first display panel 4 and the second display panel 2 are attached to each other in a longitudinal direction or in a lateral direction so as to allow opening and closing (col. 4, lines 47-55 and col. 12, lines 21-25),

wherein the second display panel 2 is an active matrix display (col. 3, lines 49-59), and

wherein the first display panel 4 is an EL display panel and the second display panel 2 is a liquid crystal display panel (col. 12, lines 26-34).

However, Minami does not suggest that the second display panel comprising a touch input operation as recited in claims 1, 2 and 25.

As shown in Fig. 4, Priestman discloses a mobile videophone 200 (portable electronic device) comprising a first display panel 226 and a second display panel 220

comprising a touch input operation which is used to control the basic operation of the videophone as well as being able to display video images received (col. 5, lines 17-22 and col. 8, lines 1-9 and 65-66).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the electronic device of Minami by employing a touch input operation for the second display panel as taught by Priestman in order to allow the user to input commands and raw data (col. 5, lines 17-22).

It is also obvious that a portable electronic device such as mobile telephone handset using liquid crystal display for lower power consumption is well known in the art.

Re claims 4 and 5, Priestman discloses that the first display panel 226 comprises a touch input operation portion (col. 8, lines 65-66).

Re claims 6 and 7, Priestman discloses that the second display panel 220 displays one of a character, a symbol, and buttons (col. 8, line 66 through col. 9, line 5).

Re claims 8, 9 and 27, Priestman discloses that the second display panel 220 comprises an image pickup device 222 (CCD video camera).

Re claims 10 and 11, Priestman discloses that one of the first display device and the second display device comprises a system 222 for identifying a user (col. 8, lines 54-64).

Re claims 21 and 22, Priestman discloses that the portable electronic device comprises audio portions 224, 228 as a communication function (col. 9, lines 18-30).

6. Claims 3 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Minami et al. (Minami, US 6,967,632) in view of Priestman et al. (Priestman, USPN 6,812,954 B1) as applied to claims 1, 2, 4-11, 21, 22, 25, 27, 34 and 35 above and further in view of Mack II et al. (USPN 6,510,325 B1).

The electronic device of Minami as modified in view of Priestman above includes all that is recited in claims 3 and 16-18 except for a third display device comprising an image pickup device and a system for identifying a user.

Re claim 3, as shown in Figs. 2D, 3A and 3B, Mack II et al. discloses a portable electronic device comprising:

a first display panel 6 in front of an upper segment 9 (Fig. 3A);

a second display panel 43 (touch pad) in a base segment 8; and

a third display panel 20 provided between the first display device 6 and the second display device 43 (in back of the upper segment 9 in Fig. 3B),

wherein, re claims 16 and 17, the third display panel comprises an image pickup device 21 or a system for identifying a user 21 (col. 6, lines 49-52); and

wherein, re claim 18, the third display panel is a liquid crystal display device (col. 6, lines 34-52).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the device of Priestman with the teaching of Mack II et al. by forming a third display device comprising an image pickup device or a system for identifying a user so as to obtain a full function video phone (col. 6, lines 43-52).

7. Claims 19 and 23 are rejected under 35 U.S.C. 102(b) being unpatentable by Minami et al. (Minami, US 6,967,632) in view of Priestman et al. (Priestman, USPN 6,812,954 B1) and Gale et al. (Gale, USPN 6,452,577 B1).

Re claim 19, as shown in Figs. 1-7, Minami discloses an electronic device comprising:

a cover member comprising an active matrix EL display panel 4 for displaying an image (col. 3, lines 49-59 and col. 12, lines 31-34); and

a display panel 2 (col. 3, lines 49-59),

wherein the cover member and the display panel 2 are attached to each other so as to allow opening and closing (col. 4, lines 47-55).

Minami discloses an electronic device that is basically the same as that recited in claim 19 except for the display panel being a reflection display panel comprising a touch input operation, wherein the reflection display is made to display by irradiating light emitted from the active matrix EL display device.

At first, as shown in Figs. 1 and 2, Gale discloses a portable electronic device (col. 1, lines 12-23) comprising:

a cover member 12 comprising an active matrix display panel 22 (microdisplay) for displaying an image (col. 3, lines 1-20); and

a reflection display panel 18, the reflection display is made to display by irradiating light emitted from the active matrix display panel 22.

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the electronic device of Minami with the teaching

of Gale by having a reflection display panel where the reflection display is made to display by irradiating light emitted from the active matrix EL display device onto the reflection display to produce an image which is viewable by a user at a greater distance (col. 1, lines 26-31).

Further, as shown in Fig. 4, Priestman discloses a mobile videophone 200 (portable electronic device) comprising a first display panel 226 and a second display panel 220 comprising a touch input operation which is used to control the basic operation of the videophone as well as being able to display video images received (col. 5, lines 17-22 and col. 8, lines 1-9 and 65-66).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the electronic device of Minami by employing a touch input operation for the reflective display panel as taught by Priestman in order to allow the user to input commands and raw data (col. 5, lines 17-22).

It is also obvious that a portable electronic device such as mobile telephone handset using liquid crystal display for lower power consumption is well known in the art.

Re claim 23, Priestman discloses that the portable electronic device comprises a communication function 224, 228.

8. Claims 36-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Minami et al. (Minami, US 6,967,632) in view of Nakai et al. (Nakai, US 6,072,454) and Priestman et al. (Priestman, USPN 6,812,954 B1).

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Re claims 36 and 44, as shown in Figs. 1-7, Minami discloses an electronic device comprising:

a first liquid crystal display device 2 for displaying an image (col. 3, lines 49-59); and

a second liquid crystal display device 4 (col. 3, lines 49-59),

wherein the first display device 2 and the second display device 4 are attached to each other;

wherein the first display device 2 is an active matrix liquid crystal display device (col. 3, lines 49-59);

wherein the second display device 4 is one of an active matrix display device and an active matrix EL display device (col. 3, lines 49-49 and col. 12, lines 31-34); and

wherein the first display device 2 has a higher resolution than that of the second display device 4 (col. 3, lines 49-59).

However, Minami does not disclose that the second display device comprising a touch input operation and the first display device or the second display device includes a top gate TFT or an inverse stagger TFT (bottom gate).

At first, according to an intended application, it is well known in the art that the TFT structure may be a top gate (staggered type) or an inverse staggered type (bottom gate) as disclosed by Nakai (col. 17, lines 35-41).

Further, as shown in Fig. 4, Priestman discloses a mobile videophone 200 (portable electronic device) comprising a first display panel 226 and a second display panel 220 comprising a touch input operation which is used to control the basic

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operation of the videophone as well as being able to display video images received (col. 5, lines 17-22 and col. 8, lines 1-9 and 65-66).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the electronic device of Minami by employing a touch input operation for the reflective display panel as taught by Priestman in order to allow the user to input commands and raw data (col. 5, lines 17-22).

It is also obvious that a portable electronic device such as mobile telephone handset using liquid crystal display for lower power consumption is well known in the art.

Re claims 39 and 47, Priestman discloses that the second display panel 220 displays one of a character, a symbol, and buttons (col. 8, line 66 through col. 9, line 5);

Re claims 40 and 48, Priestman discloses that the portable electronic device comprises audio portions 224, 228 as a communication function (col. 9, lines 18-30);

Re claims 41 and 49, Priestman discloses that a screen of the second display device 220 is switched to various input keys displayed on the display device since the display device can be used as a man machine interface (col. 8, line 66 through col. 9, line 5).

Re claims 43 and 51, Priestman discloses that the portable electronic device is a mobile telephone as shown in Fig. 4.

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Re claims 37, 38, 45 and 46, Nakai discloses that the TFT may be formed of a semiconductor layer of polysilicon or a semiconductor layer of amorphous silicon is used (col. 17, lines 35-41).

Re claims 42 and 50, Nakai discloses that TFT 407 is formed a pixel portion or a driver circuit or a memory or a microprocessor on a substrate 401 (see also Fig. 1 and col. 15, lines 26-62).

### Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms, can be reached at (571) 272-1787.

Thousanding

Thoi V. Duong

01/06/2007